

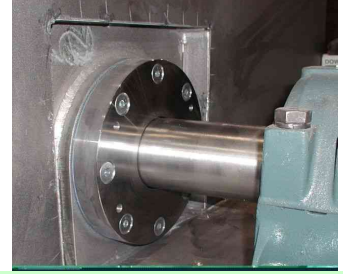


0FX Series Externally Adjusted

Installation Guide

1.) Preparing for installation.

- A.) If clearance from shaft to bulkhead greater than $\frac{1}{4}$ +, an adaptor plate is required. Fabricate or purchase split adaptor plate to reduce opening to a maximum of $\frac{1}{4}$ +. Check condition of shaft. Shaft tolerance +/- .005"
- B.) Assemble adaptor plate around shaft. Apply RTV to bulkhead. Mount adaptor plate to bulkhead.
- C.) Components parts of seal are shipped with split parts assembled. Using the proper hex key disassemble split parts one at a time and reassemble them (except stators & boot) around shaft. *Part line of the rotor cups must be seamless and feel smooth. Bearing surfaces must be flush. (Consult exploded view for part orientation)



2.) Mount the Female Housing of Seal

- A.) Apply RTV between bulkhead/adaptor plate and outer surface of female housing.



- B.) Using socket head cap screws loosely mount female housing to the bulkhead/adaptor plate.
- C.) Ensure shaft is centered to ID of housing. Shaft should be within 2° of perpendicular to housing
- D.) After centering housing around shaft alternately tighten screws to 18 foot lbs.



- E.) Insert split o-ring into the groove on the inside of the female housing. *Use a small amount of RTV to bond o-ring seam & allow it to cure.

3.) Assembling Internal Components Stator Plates, Boot and Rotor Cups

Note: Consult exploded view for proper order & orientation of the following component parts.

- A.) Slip the stators over shaft. (Between housing halves & rotor cups) (Figure 1 below)
- B.) Align each stator's notch with the spring pin located in the bore of the female and male housing halves.
- C.) Secure each stator plate with # 8-32* screws provided. *Do not over tighten screws.
- D.) Place split boot over shaft. (Between the rotor cups) (Figure 2 below)
- E.) Apply RTV to puzzle cut on boot. *Allow RTV to cure.
- F.) Align hubs on boot with cut outs on rotor cups. * Stack them together & push against stator in female housing. (Figure 3 below)

Figure 1



Figure 2



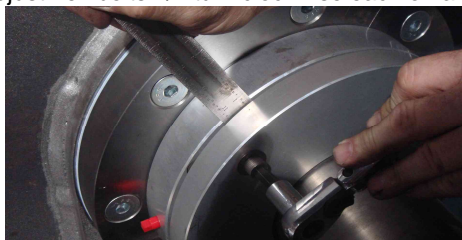
Figure 3



4.) Align & mount Male Housing of Seal

- A.) Insert Male housing into the cut-out of Female housing. Align adjustment holes in Male with tapped holes in Female housing.
- B.) Use 3/8"-16 Hex Head bolts supplied to mount housing halves together. Use a feeler gauge to adjust gap to 5/32" all around.
- C.) Attach air supply to 1/8" NPT fitting on Female housing. Adjust inlet pressure to 5 to 8 psi above vessel pressure.
- D.) Seal Maintenance: Adjust hex bolts 1/4 turn clockwise each on a three to six month cycle.

Set Initial Adjustment gap To 5/32"





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This is a general guide for ALL EXTERNAL ADJUSTERS.

All Externally Adjusted seals use the same assembly steps. Regular maintenance schedule is suggested.

*Purge options: Air, Nitrogen and Silicone Grease. (Dow Corning Molykote G-4500)

Air Purge to be set 5 to 8 psi above vessel pressure (*air regulator is optional*)

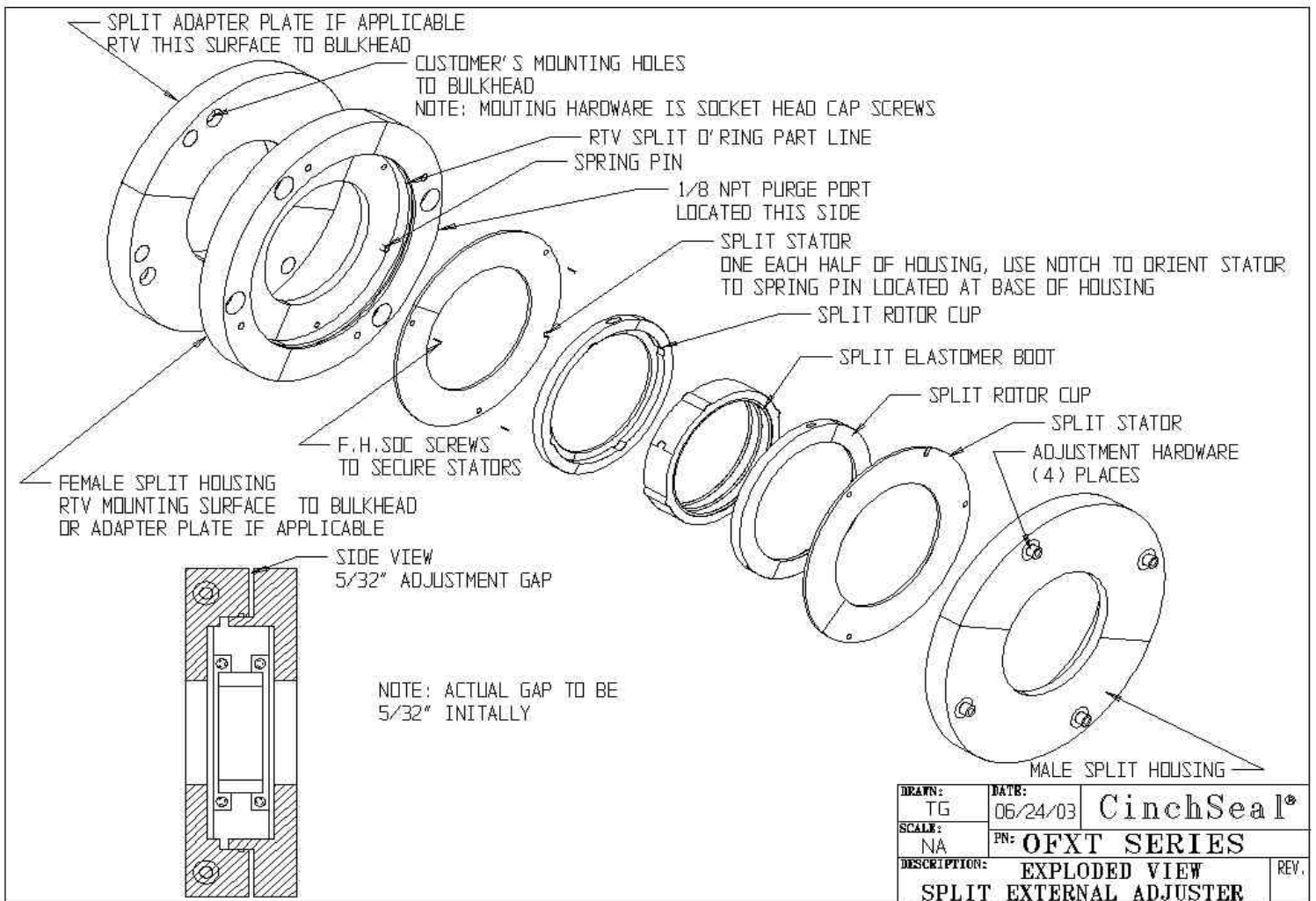
*Above 200° must use air purge.

The 0FXTSAN Split Sanitary: material 316 S.S.

*The stators press fit into the bore of the Female and Male housing.

*316 Stainless steel knobs are used for the adjustment hardware.

Shown below is Exploded view of CinchSeal Standard Externally Adjusted Model "0FXT"



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